Aeronautics Educator Guide			
1997 Science			
Learning Standards			
Illinois Science			
Grades K-3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	IL	SCI.K-3.11.A.1a	Describe an observed event.
Air Engines (12-16)	IL	SCI.K-3.11.A.1b	Develop questions on scientific topics.
Air Engines (12-16)	IL	SCI.K-3.11.A.1f	Compare observations of individual and group results.
Air Engines (12-16)	IL	SCI.K-3.12.D.1a	Identify examples of motion (e.g., moving in a straight line, vibrating, rotating).
Air Engines (12-16)	IL	SCI.K-3.13.A.1c	Explain how knowledge can be gained by careful observation.
Making Time Fly (80-86)	IL	SCI.K-3.11.B.1e	Report the design of the device, the test process and the results in solving a given problem.
Making Time Fly (80-86)	IL	SCI.K-3.13.B.1c	Describe contributions men and women have made to science and technology.
Dunked Napkin (17-22)	IL	SCI.K-3.11.A.1b	Develop questions on scientific topics.
Dunked Napkin (17-22)	IL	SCI.K-3.11.A.1c	Collect data for investigations using measuring instruments and technologies.
Dunked Napkin (17-22)	IL	SCI.K-3.12.C.1b	Compare large-scale physical properties of matter (e.g., size, shape, color, texture, odor).
Paper Bag Mask (23-28)	IL	SCI.K-3.11.A.1b	Develop questions on scientific topics.
Paper Bag Mask (23-28)	IL	SCI.K-3.12.C.1b	Compare large-scale physical properties of matter (e.g., size, shape, color, texture, odor).
Wind in Your Socks) (29-35)	IL	SCI.K-3.11.A.1b	Develop questions on scientific topics.
Wind in Your Socks) (29-35)	IL	SCI.K-3.11.A.1c	Collect data for investigations using measuring instruments and technologies.
Wind in Your Socks) (29-35)	IL	SCI.K-3.11.A.1f	Compare observations of individual and group results.
Wind in Your Socks) (29-35)	IL	SCI.K-3.13.A.1c	Explain how knowledge can be gained by careful observation.
Wind in Your Socks) (29-35)	IL	SCI.K-3.13.B.1a	Explain the uses of common scientific instruments (e.g., ruler, thermometer, balance, probe, computer).
Air: Interdisciplinary Learning Activities (36-39)	IL	SCI.K-3.11.B.1a	Given a simple design problem, formulate possible solutions.
Air: Interdisciplinary Learning Activities (36-39)	IL	SCI.K-3.11.B.1b	Design a device that will be useful in solving the problem.
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Grades 4-5			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	IL	SCI.4-5.11.A.2a	Formulate questions on a specific science topic and choose the steps needed to answer the questions.
Air Engines (12-16)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Rotor Motor (69-75)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Flight: Interdisciplinary Learning Activities (76-79)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Dunked Napkin (17-22)	IL	SCI.4-5.11.A.2a	Formulate questions on a specific science topic and choose the steps needed to answer the questions.
Dunked Napkin (17-22)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Dunked Napkin (17-22)	IL	SCI.4-5.11.A.2e	Report and display the results of individual and group investigations.
Dunked Napkin (17-22)	IL	SCI.4-5.13.A.2a	Demonstrate ways to avoid injury when conducting science activities (e.g., wearing goggles, fire extinguisher use).
Dunked Napkin (17-22)	IL	SCI.4-5.13.A.2b	Explain why similar investigations may not produce similar results.
Paper Bag Mask (23-28)	IL	SCI.4-5.11.A.2a	Formulate questions on a specific science topic and choose the steps needed to answer the questions.
Paper Bag Mask (23-28)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Paper Bag Mask (23-28)	IL	SCI.4-5.13.A.2a	Demonstrate ways to avoid injury when conducting science activities (e.g., wearing goggles, fire extinguisher use).
Wind in Your Socks) (29-35)	IL	SCI.4-5.11.A.2a	Formulate questions on a specific science topic and choose the steps needed to answer the questions.
Wind in Your Socks) (29-35)	IL	SCI.4-5.11.A.2b	Collect data for investigations using scientific process skills including observing, estimating and measuring.
Air: Interdisciplinary Learning Activities (36-39)	IL	SCI.4-5.11.B.2b	Develop a plan, design and procedure to address the problem identifying constraints (e.g., time, materials, technology).
Air: Interdisciplinary Learning Activities (36-39)	IL	SCI.4-5.11.B.2e	Assess test results and the effectiveness of the design using given criteria and noting possible sources of error.
Air: Interdisciplinary Learning Activities (36-39)	IL	SCI.4-5.11.B.2f	Report test design, test process and test results.